

**FORM IV**  
**(Refer regulation 7(2))**  
**Bureau of Energy Efficiency**  
**REGISTER CONTAINING NAMES OF OFFICES AND FIRMS OF ACCREDITED**  
**ENERGY AUDITORS**

| Serial Number (AEA-0033) As on 26 February 2013.(DD/MM/20YY)  |  |                        |
|---|--|------------------------|
| <b>A.</b>   |  |                        |
| 1   | Name of accredited energy auditor  | SURESH BABU B V        |
| 2   | Father's name  | BABU C                 |
| 3   | Date of certification as Energy Manager  | November 2008          |
| 4   | Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"                                   | November 2008          |
| 5   | Examination Registration Number of<br>(i) Energy Manager<br><br>(ii) "Energy Performance Assessment for Equipment and Utility Systems" | EA 3244                |
| 6   | Certificate Registration Number of<br>(i) Energy Manager<br><br>(ii) "Energy Performance Assessment for Equipment and Utility Systems" | 3986                   |
| 7   | Date of issue of accreditation certificate   | ( to be filled by BEE) |
| <b>B. Information in respect of trade name or firms' name</b> |  |                        |
| 8   | Trade name / firms name under which energy audit is proposed to be conducted   | OTTOTRACTIONS          |
| 9   | Date of accreditation as accredited energy auditor   | ( to be filled by BEE) |



|    |   |  |
|----|---|--|
| 10 | Type of firm/ private/ Government / NGO etc.  | PRIVATE  |
| 11 | Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address ( All details compulsory) | Suresh Babu B V,<br>Certified Energy Auditor,<br>OTTOTRACTIONS,<br>C-22, VT NAGAR, MANIKANTESWARAM P O,<br>THIRUVANANTHAPURAM-695013<br>Ph/Fax : 0471-2914388,<br>Mob: 09447068747   |
| 12 | Professional postal address with Pin Code of the accredited energy auditor  | OTTOTRACTIONS,<br>C-22, VT NAGAR, MANIKANTESWARAM P O,<br>THIRUVANANTHAPURAM-695013  |
| 13 | E-mail address  | ottotractions@email.com<br>sureshbabubv@gmail.com  |
| 14 | Telephone numbers . with STD Code (R) (O) Mobile no:  | Residence 0471-2368747<br>Office TVM 0471-2914388<br>Mobile No. +91 9447068747   |
| 15 | Year of establishment of the trade name / firms' name for undertaking the energy audit  | 2005   |
| 16 | Year of commencement of energy audit of the firm  | 2005   |
| 17 | Whether any certificate to support the excellence in the system has been obtained (ISO etc.)  | 1. Empanelled by Energy Management Centre Kerala, SDA Kerala.<br>2. Won Kerala State Award for best performance as a Certified Energy Auditor.(Dec. 2009)  |
| 18 | No. of branch offices<br><br>(List of complete addresses including heads of all branch offices with telephone, fax and email addresses)                   | Address: OTTOTRACTIONS,<br>SRL-A21, Sasthamangalam,<br>Thiruvananthapuram-695010<br>Ph:0471 2914388<br>Email: <a href="mailto:ottotractions@email.com">ottotractions@email.com</a> ,<br><a href="mailto:otenergy@gmail.com">otenergy@gmail.com</a> |

| C                         | Details of Associated Energy Experts   |  |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
|---------------------------|--|--|---------------------------|--|------------------------|---|---------|---|---|---------------|-----------|---|---------------|--|---|---------------------|--------|---|---------------------------------------|---|---|---------------------------------|--------------------------------|---|-----------------------------------|-------------------------------|---|----------------|--|---------------------------|--|--------------------|---|---------|---|---|---------------|------------|---|---------------|---|---|---------------------|--------|---|---------------|-------------------|
| 19                        | Number of resource persons available   | 5  |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 20                        | I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm | <table border="0"> <tr> <td colspan="2" data-bbox="667 401 943 470"><b>RESOURCE PERSON- 1</b></td> <td data-bbox="943 401 1523 436"><b>GEORGE VARGHESE</b></td> </tr> <tr> <td data-bbox="667 470 943 539">1</td> <td data-bbox="667 470 943 539">Address</td> <td data-bbox="943 470 1523 539">Koipuram House, Kadappakkada, Kollam-691008</td> </tr> <tr> <td data-bbox="667 539 943 575">2</td> <td data-bbox="667 539 943 575">Date of Birth</td> <td data-bbox="943 539 1523 575">8/12/1967</td> </tr> <tr> <td data-bbox="667 575 943 911">3</td> <td data-bbox="667 575 943 911">Qualification</td> <td data-bbox="943 575 1523 911">B Tech Mechanical - Kerala University<br/><b>Certified Energy Auditor, BEE, EA-10883</b>, Government of India<br/>Advanced Diploma in Air-conditioning and Refrigeration - ISHRAE, Delhi<br/>Approved Valuer , Plant and Machinery- Institute of Valuers- Delhi<br/>Chartered Engineer- Institute of Engineers, Kolkata</td> </tr> <tr> <td data-bbox="667 911 943 980">4</td> <td data-bbox="667 911 943 980">Period of Expertise</td> <td data-bbox="943 911 1523 980">17 yrs</td> </tr> <tr> <td data-bbox="667 980 943 1129">a</td> <td data-bbox="667 980 943 1129">Innovative foods Ltd Allappy (SUMERU)</td> <td data-bbox="943 980 1523 1129">Deputy Manager (Operations &amp; Maintenance) of Ammonia &amp; Freon Refrigeration Plant including HVACs and Water Chillers</td> </tr> <tr> <td data-bbox="667 1129 943 1241">b</td> <td data-bbox="667 1129 943 1241">Higashumaru Feeds India Pvt Ltd</td> <td data-bbox="943 1129 1523 1241">Assistant Manager (Operations)</td> </tr> <tr> <td data-bbox="667 1241 943 1352">c</td> <td data-bbox="667 1241 943 1352">Gesmy Plastic Industries , Kollam</td> <td data-bbox="943 1241 1523 1352">Assistant Manager (Technical)</td> </tr> <tr> <td data-bbox="667 1352 943 1421">5</td> <td data-bbox="667 1352 943 1421">Core Expertise</td> <td data-bbox="943 1352 1523 1421">HVAC System, AHUs, Chillers, Cooling Towers etc.</td> </tr> <tr> <td colspan="2" data-bbox="667 1499 1105 1535"><b>RESOURCE PERSON- 2</b></td> <td data-bbox="1105 1499 1523 1535"><b>B ZACHARIAH</b></td> </tr> <tr> <td data-bbox="667 1535 943 1684">1</td> <td data-bbox="667 1535 943 1684">Address</td> <td data-bbox="1105 1535 1523 1684">"Pulimoottil", Makkapuzha PO, Ranni, PIN - 689676, +91 9447621674, 04735 262676</td> </tr> <tr> <td data-bbox="667 1684 943 1719">2</td> <td data-bbox="667 1684 943 1719">Date of Birth</td> <td data-bbox="1105 1684 1523 1719">22/07/1962</td> </tr> <tr> <td data-bbox="667 1719 943 1789">3</td> <td data-bbox="667 1719 943 1789">Qualification</td> <td data-bbox="1105 1719 1523 1789">Diploma in Instrumentation Engineering (Industrial)</td> </tr> <tr> <td data-bbox="667 1789 943 1824">4</td> <td data-bbox="667 1789 943 1824">Period of Expertise</td> <td data-bbox="1105 1789 1523 1824">25 yrs</td> </tr> <tr> <td data-bbox="667 1824 943 1879">a</td> <td data-bbox="667 1824 943 1879">Ottotractions</td> <td data-bbox="1105 1824 1523 1879">Chief Consultant,</td> </tr> </table> | <b>RESOURCE PERSON- 1</b> |  | <b>GEORGE VARGHESE</b> | 1 | Address | Koipuram House, Kadappakkada, Kollam-691008 | 2 | Date of Birth | 8/12/1967 | 3 | Qualification | B Tech Mechanical - Kerala University<br><b>Certified Energy Auditor, BEE, EA-10883</b> , Government of India<br>Advanced Diploma in Air-conditioning and Refrigeration - ISHRAE, Delhi<br>Approved Valuer , Plant and Machinery- Institute of Valuers- Delhi<br>Chartered Engineer- Institute of Engineers, Kolkata | 4 | Period of Expertise | 17 yrs | a | Innovative foods Ltd Allappy (SUMERU) | Deputy Manager (Operations & Maintenance) of Ammonia & Freon Refrigeration Plant including HVACs and Water Chillers | b | Higashumaru Feeds India Pvt Ltd | Assistant Manager (Operations) | c | Gesmy Plastic Industries , Kollam | Assistant Manager (Technical) | 5 | Core Expertise | HVAC System, AHUs, Chillers, Cooling Towers etc. | <b>RESOURCE PERSON- 2</b> |  | <b>B ZACHARIAH</b> | 1 | Address | "Pulimoottil", Makkapuzha PO, Ranni, PIN - 689676, +91 9447621674, 04735 262676 | 2 | Date of Birth | 22/07/1962 | 3 | Qualification | Diploma in Instrumentation Engineering (Industrial) | 4 | Period of Expertise | 25 yrs | a | Ottotractions | Chief Consultant, |
| <b>RESOURCE PERSON- 1</b> |  | <b>GEORGE VARGHESE</b>   |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 1                         | Address  | Koipuram House, Kadappakkada, Kollam-691008  |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 2                         | Date of Birth  | 8/12/1967  |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 3                         | Qualification  | B Tech Mechanical - Kerala University<br><b>Certified Energy Auditor, BEE, EA-10883</b> , Government of India<br>Advanced Diploma in Air-conditioning and Refrigeration - ISHRAE, Delhi<br>Approved Valuer , Plant and Machinery- Institute of Valuers- Delhi<br>Chartered Engineer- Institute of Engineers, Kolkata   |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 4                         | Period of Expertise  | 17 yrs   |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| a                         | Innovative foods Ltd Allappy (SUMERU)  | Deputy Manager (Operations & Maintenance) of Ammonia & Freon Refrigeration Plant including HVACs and Water Chillers  |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| b                         | Higashumaru Feeds India Pvt Ltd  | Assistant Manager (Operations)   |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| c                         | Gesmy Plastic Industries , Kollam  | Assistant Manager (Technical)  |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 5                         | Core Expertise   | HVAC System, AHUs, Chillers, Cooling Towers etc.   |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| <b>RESOURCE PERSON- 2</b> |  | <b>B ZACHARIAH</b>   |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 1                         | Address  | "Pulimoottil", Makkapuzha PO, Ranni, PIN - 689676, +91 9447621674, 04735 262676  |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 2                         | Date of Birth  | 22/07/1962   |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 3                         | Qualification  | Diploma in Instrumentation Engineering (Industrial)  |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| 4                         | Period of Expertise  | 25 yrs   |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |
| a                         | Ottotractions  | Chief Consultant,  |                           |  |                        |   |         |   |   |               |           |   |               |  |   |                     |        |   |                                       |   |   |                                 |                                |   |                                   |                               |   |                |  |                           |  |                    |   |         |   |   |               |            |   |               |   |   |                     |        |   |               |                   |

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|    |  | <p>b Integrated Rural Technology Center (IRTC)</p> <p>c BharathGyanVigyanSamiti, BGVS, New Delhi</p> <p>d M/s. Bella Chemicals</p> <p>e M/s. Annapurna Breads, Gudgeon, Haryana</p> <p>f KEYAM Food Industries</p> <p>f Electro Tools, New Delhi</p> <p>5 Core Expertise</p> | <p>Electrical Energy Audit and Power Quality Campus Manager</p> <p>Project coordinator</p> <p>Consultant Engineer</p> <p>Consultant Engineer</p> <p>Sr. Supervisor, Production and Maintenance</p> <p>supervisor in fabrication of control panels</p> <p>Electrical Control Panels, Power Quality, Instrumentation, Project Implementation</p>   |
|    | <p>II. No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.</p> | <p>RESOURCE PERSON- 3</p> <p>1 Address</p> <p>2 Date of Birth</p> <p>3 Qualification</p> <p>4 Period of Expertise</p> <p>5 Core Expertise</p>  | <p>K PRABHAKARAN NAIR</p> <p>TC9/285, Arjunam, Sasthamangalam PO Trivandrum</p> <p>11/9/1951</p> <p>B Sc Electrical - Kerala University<br/>Certified Energy Auditor- (EA 0511)<br/>BEE, Government of India</p> <p>30 yrs</p> <p>Rtd Additional Chief Electrical Inspector, Govt of Kerala<br/>Secretary, Kerala State Electricity licensing board<br/>Rtd. Deputy Chief Electrical Inspector<br/>Electrical Inspector<br/>Executive Engineer(<br/>Thiruvananthapuram Development Authority TRIDA on deputation)</p> <p>Transmission &amp; Distribution System, Demand side management, Power quality</p> |
| 21 | <p>Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception</p>  | <p>Commercial buildings (Hospitals, Hotels, IT, Data Centers), Process industry (Tea, Rubber, Jute, Dairy, Pharmaceuticals, Sea Food), Textiles, Chemicals, Chlor-alkali, Cement, Pulp &amp; Paper, Fertiliser,Refinery Petrochemicals, Steel Rolling,</p>                   |  |

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|-----|--|---|
|     |  | Power Plant, Engineering, Printing, SMEs, Municipal water supply, Foundries & Forging.  |
| 22  | Subject wise expertise   |   |
| (a) | Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil. Bureau of Energy Efficiency will be calling for detailed information in case agency has listed its energy audit expertise in the process systems | Agro Industry<br>Textile<br>Chemical<br>Cement<br>Chlor Alkali<br>Buildings (Hospitals, Hotels etc)   |
| (b) | Energy audit thermal utility system (list sectors)   | Rubber, Agroindustry, Textile, Chemical   |
| (c) | Energy audit electrical utility system (list sectors)  | Buildings, Hotels Hospitals, Schools, Industries, Museums etc.  |
| 23  | Instruments available  |   |
|     | (a) Electrical (list the name of the instruments)  | <ol style="list-style-type: none"> <li>1. Three Phase Power Analyzer (2 Nos)</li> <li>2. Harmonic Analyzer</li> <li>3. Single CT Hi-tester</li> <li>4. Thermal Imager</li> <li>5. Light meter (2 Nos)</li> <li>6. Digital Earth Tester</li> <li>7. Non contact Tachometer</li> <li>8. Anemometer</li> <li>9. IR Thermometer (2 Nos)</li> <li>10. Altimeter</li> <li>11. Hygrometer</li> <li>12. GPS Map 62 S</li> </ol> |
|     | (b) Thermal (list the name of the instruments)   | <ol style="list-style-type: none"> <li>1. Combustion Analyzer (IR)</li> <li>2. IR Thermometer</li> </ol>  |

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| 24<br>(i) | Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit | <ol style="list-style-type: none"> <li>1. Resource person for various Institutions for energy management training.</li> <li>2. Conducted classes on Energy Efficiency and Energy management in Health care systems at Trivandrum in February 2010 in association with EMC Kerala</li> <li>3. Training Classes on Energy Efficiency in Building at a seminar in 2010 February.</li> <li>4. Classes on energy management and efficiency at engineering colleges and poly technics.</li> <li>5. Conducted Various training Classes for School Children</li> <li>6. Conducted Training Classes for professionals from Hospitals and Hotels on energy management and efficiency.</li> <li>7. As part of the energy audit training for Toplevel management, Middle level management and Workers/staff are conducted and the process is on going</li> <li>8. Conducted various classes organized by EMC Kerala and ANERT</li> <li>9. Conducted Training Classes for Local Self Governments.</li> </ol> |
| (ii)      |   |   |
| (iii)     |   |   |

| <b>D</b> | <b>Remarks( if any)</b> |
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(Note: Responsibility of the authenticity of the above information rests with the concerned energy auditor/energy auditing agency.)